CLAIMS

What is claimed is:

1	1.	A method comprising:
2		a network computer (NC) client booting from a boot image provided by an NC
3		server, the boot image including information identifying the location of
4		one or more system volumes on the NC server, the one or more system
5		volumes containing operating system software; and
6		in response to an attempt to modify the contents of the one or more system
7		volumes, the NC client causing information identifying a modification
8		associated with the attempt to be recorded on the NC server separate from
9		the one or more system volumes in a storage area associated with the NC
10		client.
1	2.	The method of claim 1, further comprising
2		transmitting information identifying a user of the NC client to the NC server;
3		receiving information identifying the user's desktop environment preferences
4		from the NC server; and
5		customizing a desktop environment of the NC client in accordance with the user's
6		desktop environment preferences.
1	3.	The method of claim 1, wherein the one or more system volumes are presented to
2		the NC client as a split operating system including a core operating system
3		volume that can be read but not written by the NC client and a user operating
4		system volume that can be read and/or written by the NC client, wherein the
5		storage area associated with the NC client comprises a shadow volume
6		corresponding to the user operating system volume, and wherein the step of the

- NC client causing information identifying a modification associated with the attempt to be recorded comprises tracking modifications to the user operating system volume in the shadow volume.
- The method of claim 1, further comprising, prior to the step of booting from a
 boot image provided by an NC server, (1) the NC client initiating a boot process
 by booting into a local memory of the NC client, (2) the NC client transmitting a
 boot request to the NC server, and (3) the NC client receiving the boot image from
 the NC server.
- The method of claim 3, wherein the step of booting from a boot image provided
 by an NC server further includes the NC client locally executing the boot image
 and mounting the one or more system volumes.

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1	6.	A network computer (NC) client comprising:
2		a bootstrapping means for booting from a boot image provided by an NC server,
3		the boot image including information identifying the location of one or
4		more system volumes on the NC server, the one or more system volumes
5		containing operating system software; and
6		a redirecting means, responsive to an attempt to modify the contents of the one or
7		more system volumes, for causing information identifying a modification
8		associated with the attempt to be recorded on the NC server separate from
9		the one or more system volumes in a storage area associated with the NC
10	·	client.
1	7.	The NC client of claim 6, further comprising a banding means for incorporating
2		the modification within one or more bands comprising a predetermined number of
3		blocks.
1	8.	A method comprising:
2		a network computer (NC) client booting from a boot image provided by an NC
3		server, the boot image including information identifying the location of
4		one or more system volumes on the NC server, the one or more system
5		volumes containing operating system software;
6		the NC client mounting the one or more system volumes; and
7		in response to a write request from a file system of the NC client that contains a
8		modification to the one or more system volumes, a block device driver of
9		the NC client redirecting the write request and causing information
10		identifying the modification to be recorded on the NC server in a storage

11		area associated with the NC client that is separate from the one or more
12		system volumes.
1	9.	A method comprising:
2		a network computer (NC) client booting from a boot image provided by an NC
3		server, the boot image including information identifying the location of
4		one or more system volumes on the NC server, the one or more system
5		volumes containing operating system software that has one or more
6		customizable attributes;
7		in response to a change to an attribute of the one or more customizable attributes,
8		the NC client causing information identifying the change to be recorded on
9		the NC server in a storage area associated with the NC client that is
10		separate and distinct from the one or more system volumes.
1	10.	A method comprising:
2		a network computer (NC) server providing a boot image to an NC client, the boot
3		image including information identifying the location on the NC server of
4		one or more system volumes containing operating system software; and
5		in response to a write request from the NC client that contains a modification to
6		the operating system software, the NC server recording information
7		identifying the modification on the NC server in a storage area associated
8		with the NC client that is separate from the one or more system volumes.
1	11.	The method of claim 10, further comprising the NC server maintaining the one or
2		more system volumes as a split operating system including a single core operating

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3		system volume that can be read but not written by the NC chent and a user
4		operating system volume that can be both read and written by the NC client.
1	12.	The method of claim 11, wherein the storage area associated with the NC client
2		contains a non-persistent shadow volume corresponding to the user operating
3		system volume to which modifications to the user operating system volume are
4		recorded.
1	13.	The method of claim 12, further comprising storing information from the shadow
2		volume to a persistent, user-specific storage area for use in a subsequent user
3		session.
1	14.	The method of claim 13, further comprising:
2		receiving information identifying the user of the NC client; and
3		providing the NC client with information indicative of the user's desktop
4		environment by accessing the persistent, user-specific storage area.
1	15.	A network computer (NC) server comprising:
2		a boot server means for providing a boot image to an NC client, the boot image
3		including information identifying the location on the NC server of one or
4		more system volumes containing operating system software; and
5		a storage management means for recording information identifying a modification
6		to the operating system software in a storage area associated with the NC
7		client that is separate from the one or more system volumes, the storage
8		management means operative in response to a write request from the NC
9		client that contains the modification.

I	16.	A machine-readable medium having stored thereon data representing sequences of
2		instructions, the sequences of instructions which, when executed by a processor,
3		cause the processor to perform the steps of:
4		providing a boot image to a network computer (NC) client, the boot image
5		including information identifying a location on an NC server of one or
6		more system volumes containing operating system software; and
7		in response to a write request from the NC client that contains a modification to
8		the operating system software, recording information identifying the
9		modification in a storage area associated with the NC client that is separate
10		from the one or more system volumes.
1	17.	In a network computer (NC) system, a method comprising:
2		an NC server providing a boot image to an NC client, the boot image including
3		information identifying the location on the NC server of one or more
4		system volumes containing operating system software;
5		the NC client booting from the boot image provided by the NC server;
6.		the NC client mounting the one or more system volumes;
7		in response to a write request from a file system of the NC client that contains a
8		modification to the one or more system volumes, a block device driver of
9		the NC client redirecting the write request to a storage area on the NC
10		server that is associated with the NC client and which is separate from the
11		one or more system volumes;
12		the NC server receiving the write request from the NC client; and
13		the NC server causing information identifying the modification to be recorded in
14		the storage area associated with the NC client.

l	18.	A network computer (NC) system comprising:
2		an NC server configured to provide a boot image to one or more NC clients
3		associated with the NC system, the boot image including information
4		identifying the location on the NC server of one or more system volumes
5		containing operating system software; and
6		an NC client coupled in communication with the NC server, the NC client
7		configured to receive and boot from the boot image, the NC client
8		including a file system process and a block device driver, the block device
9		driver configured to redirect write requests directed to the one or more
10		system volumes to a storage area on the NC server that is associated with
11		the NC client and which is separate from the one or more system volumes.